



PATENT
1823-0115P

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant: Hifumi NAGAI et al. Conf.: 2644
Appl. No.: 10/058,284 Group: 1742
Filed: January 30, 2002 Examiner: Unassigned
FOR: COPPER-ALLOY FOIL TO BE USED FOR LAMINATE SHEET

LARGE ENTITY TRANSMITTAL FORM

Assistant Commissioner for Patents
Washington, DC 20231

OCT 10 2002

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified application.

- ☐ The enclosed document is being transmitted via the Certificate of Mailing provisions of 37 C.F.R. § 1.8.
- ☐ The enclosed document is being transmitted via facsimile.

The fee has been calculated as shown below:

	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR		PRESENT EXTRA	RATE	ADDITIONAL FEE
TOTAL	8	-	20	=	0	\$18	\$0.00
INDEPENDENT	4	-	4	=	0	\$84	\$0.00
<input type="checkbox"/> FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM						\$280	\$0.00
						TOTAL	\$0.00

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- ☐ Petition for () month(s) extension of time pursuant to 37 C.F.R. §§ 1.17 and 1.136(a). \$0.00 for the extension of time.
- ☒ No fee is required.
- ☐ Check(s) in the amount of \$0.00 is(are) enclosed.
- ☐ Please charge Deposit Account No. 02-2448 in the amount of \$0.00. This form is submitted in triplicate.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By



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Attachment(s)



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PRELIMINARY AMENDMENT

Honorable Commissioner of Patents
Washington, D.C. 20231

October 10, 2002

Sir:

The following preliminary amendments and remarks are respectfully submitted in connection with the above-identified application.

IN THE SPECIFICATION

Please replace the paragraph beginning on page 14, line 1 and ending on line 9, with the following rewritten paragraph:

--On the other hand, the alloying elements according to the present invention are not added to Comparative Sample No. 32 shown in Table 3. Namely, oxygen-free copper is melted and cast into an ingot under Ar protective atmosphere. The ingot is worked into a foil, which is then bonded with polyimide. Since the material is pure copper, the electric conductivity is high. However, 180° Peeling strength is 7.0N/cm, hence the bonding strength is unsatisfactory. When such foil is laminated in a printed circuit board, there is a danger of peeling. Since the tensile strength is as small as 400N/mm², the handling performance is poor. --